

**Patent**  
**10/039,466**

**LISTING OF THE CLAIMS:**

1-21. (Canceled)

22. (Original) A method of reducing atrial fibrillation, comprising:

inserting a catheter at least partially into the heart, the catheter having a balloon, a portion of the balloon located in the left atrium and a portion of the balloon located in a pulmonary vein;  
inflating the balloon with a perfluorocarbon such that an exterior surface of the balloon is in contact with at least a partial circumference of the portion of the pulmonary vein adjacent the left atrium, the perfluorocarbon having a temperature in the range of about  $-10^{\circ}\text{C}$  to  $-50^{\circ}\text{C}$ .

23. (Original) The method of claim 22, wherein the balloon has a working region having a length of between about 5 mm and 10 mm.

24. (Original) The method of claim 22, further comprising:

inserting a wire capable of rupturing the atrial septum from the femoral vein into the right atrium;  
forming a hole using the wire in the interatrial septum between the right atrium and the left atrium;  
inserting a guide catheter into the right atrium;  
inserting a guide wire through the guide catheter into the right atrium and further into a pulmonary vein;  
disposing the catheter over the guidewire into a volume defined by the joint of the right atrium and the pulmonary